

CV

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-023830

(43)Date of publication of application : 31.01.1991

(51)Int.Cl.

A61B 1/00
G02B 23/24

(21)Application number : 01-159248

(71)Applicant : OLYMPUS OPTICAL CO LTD

(22)Date of filing : 21.06.1989

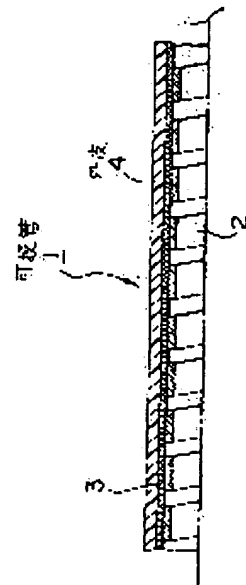
(72)Inventor : TAKAGI TAKESHI
MATSUMOTO JUN
OKUBO AKIHIRO
MORI YOICHIRO

(54) SKIN FOR FLEXIBLE TUBE FOR ENDOSCOPE

(57)Abstract:

PURPOSE: To improve heat resistance and elastic repulsion and to obtain a flexible tube with excellent heat resistance and inserting characteristics by forming a skin for a flexible tube of an endoscope by mixing a thermoplastic polyester elastomer and a thermoplastic polyurethane elastomer.

CONSTITUTION: A flexible tube 1 is constituted of a braid 3 prepd. by knitting with a fine wire of a metal with which a flex 2 prepd. by spirally wounding an elastic belt-like sheet is covered and a skin 4 with which the whole periphery of this outer surface is covered. A polyester elastomer consists of a polyether- ester copolymer wherein PBT is a hard segment and PTMEGT is a soft segment and a polyester-ether copolymer wherein PBT is a hard segment and polycaprolactone is a soft segment. In a polyurethane elastomer, a polymer chain consisting of a diisocyanate and a short chain glycol is a hard segment and a polyester polymer chain consisting of a diisocyanate and a long chain polyol is a soft segment. This polymer is prepd. by copolymerizing both segments.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office